

ITEM NO: 261-21-001

PCN: EB14-2388

CMP : NONE

SURVEYOR: BETTS

1. SCOPE:

1.1 Title: Fuel Oil Tank Suction Piping; replace

1.2 Location of Work:

1.2.1 Main Machinery Room Number 2 (7-136-0-E)

1.2.2 Fuel Oil or Ballast Tank (8-176-3-F)

1.2.3 Fuel Oil or Ballast Tank (8-160-3-F)

1.2.4 Fuel Oil or Ballast Tank (8-160-1-F)

1.2.5 Fuel Oil or Ballast Tank (8-148-3-F)

1.2.6 Ballast Tank (8-148-1-W)

1.3 Identification:

1.3.1 Quantity (160 Feet), 4 Inch IPS, Fuel Oil Tank Suction Piping, From and Including Stbd Aft Fuel Oil Manifold (V-5403), to the First Fitting Outboard of the Main Machinery Room Bulkhead, Including Connection Flanges to Manifold and Associated Fittings

1.3.2 Quantity (4 Each), 4 Inch IPS, Fuel Oil Tank Isolation Valves, Gate, Steel, 150 LB, Navy, MIL-V-20231, Class 1

1.3.3 Quantity (4 Each), 1/4 Inch IPS, Sample Valves, Globe, MIL-V-24586, Carbon Steel A105, Located on Fuel Oil Manifold V-5403

2. REFERENCES:

a. Standard Items

b. 511-1775125 Rev C, F. O. Transfer Piping in F. O. Tanks-Aft BHD 148 Arrgt.

c. 511-1775149 Rev L, F. O. Trans & Serv. Suct. Piping L/M Gen Notes & Ref's

SHIP: USS LASALLE (AGF-3)

- d. 511-1777756 Rev C, F. O. Trans & Serv Suct Mn Machy Rm No 2 Plan
- e. 511A-1775143 Rev B, LPD 1 F. O. Transfer System 4 Inch Manifolds
- f. MIL-STD-777, Schedule of Piping, Valves, Fittings, and Associated Piping Components for Naval Surface Ships
- g. 810-4714432 Rev G, NNSY Standard Drawing, Std Pipe Hangers Fabrication Dets & Instl Instr (Non-Nuc Constr)
- h. 803-1385866, Penetration Bulkhead & Deck
- i. 541-6686982 Rev A, Fuel Oil Piping, Flushing Procedure For Surface Ships

3. REQUIREMENTS:

3.1 Remove the fuel oil tank suction piping, manifold, sample valves, tank isolation valves, flanges and fittings listed in 1.3, as designated by the SUPERVISOR, using 2.b through 2.e for guidance.

3.1.1 Chip and grind surfaces flush in way of repairs.

3.1.2 Restore piping flange mating surfaces exposed by disassembly of piping system. Repair by removing high spots, burrs, abrasions, and foreign matter, where removal can be accomplished by hand tools. Take precautions to maintain phonographic finish on flanges that have it.

3.2 Install new fuel oil tank suction piping, manifold, sample valves, tank isolation valves, flanges, fittings, fasteners and gaskets in the same location and configuration as that removed in 3.1, using 2.b through 2.e for guidance. New materials shall conform to 2.f, including Category and Group E-3.

3.2.1 Install new hangers to support the new fuel oil tank suction piping and prevent vibration in accordance with 2.g.

3.2.2 Install new bulkhead and deck sleeves in accordance with 2.h.

3.2.3 The carbon steel piping shall be MIL-P-24691 or ASTM A 106, Grade A or B, Schedule 40.

3.3 Accomplish the requirements of 009-12 of 2.a, including Table One, Column A, Lines One through 10 and Table 2, Column A, Lines One through 7.

3.4 Accomplish the requirements of 009-25 of 2.a for the air hose test of bulkhead sleeves welded seams. Allowable leakage: None.

SHIP: USS LASALLE (AGF-3)

3.5 Accomplish the requirements of 2.i for the new fuel oil tank suction piping and fittings.

3.6 Accomplish the requirements of 009-71 of 2.a for new and disturbed fuel oil tank suction piping and fittings using clean, dry air or nitrogen at 10 psig.

3.7 Accomplish the requirements of 009-32 of 2.a for the new and disturbed surfaces.

(V) (G) "OPERATIONAL TEST"

3.8 Test the new and disturbed fuel oil tank suction piping and fittings under operating conditions. Allowable leakage: None.

4. NOTES:

4.1 Suggested source for fuel oil manifold:

Tate Andale
Baltimore, Md
Phone 410-247-4700
Fax 410-247-9672
POC: Dave Button

SHIP: USS LASALLE (AGF-3)

5. GOVERNMENT FURNISHED MATERIAL (GFM):

	<u>QTY</u>	<u>UI</u>	<u>NAME OF PART/ DESCRIPTION</u>	<u>PIECE NO.</u>	<u>REF. NO.</u>	<u>NATIONAL STOCK NO.</u>	<u>PARA NO.</u>
5.1	PUSH MATERIAL:						
1.	None.						
5.2	KITTED MATERIAL:						
1.	None.						
5.3	LLTM:						
1.	6	Ea.	4 Inch IPS Elbow, BTWLD F-33 45 Degree, Steel	2.c		9C4730006406252	3.2
2.	16	Ea.	4 Inch IPS Elbow, BTWLD F-9 90 Degree, Steel	2.c		9C4730002784772	3.2
3.	13	Ea.	4 Inch IPS Bulkhead Penetration, Steel	F-7	2.c	9G2040002775787	3.2
4.	4	Ea.	4 Inch IPS Slip-On Flg. J-6 (Navy) Steel	2.c		9C4730002568561	3.2
5.	16	Ea.	4 Inch IPS Hanger Assy Type 12, Steel	---	---	9C5340LLL990105	3.2
6.	160	Ft.	4 Inch IPS Pipe, Steel, P-50002 Sch 40	2.c		9C4710003475111	3.2
7.	50	Ea.	4 Inch IPS Split Type Backing Rings, Steel	---	---	9C4730LLL870629	3.2
8.	4	Ea.	4 Inch x 6 Inch IPS Concentric Rdc, Steel	---	---	9C4730005295112	3.2
9.	100	Ft.	1-1/4 Inch x 1/8 Inch Fiberglass Wrap	---	---	5330011714029	3.2
10.	12	Ea.	4 Inch IPS 150 LB Flex Gaskets	---	---	9Z5330013387835	3.2
11.	96	Ea.	1/2-13UNC x 2-1/2 Studs B-3	2.c		9Z5307006376465	3.2
12.	192	Ea.	1/2-13UNC Hex Nuts	N-2	2.c	9Z5310006373628	3.2

SHIP: USS LASALLE (AGF-3)

13.	8	Ea	3/4-10UNC x 1-1/2 Inch Long, Hex Head Bolts, Steel, MIL-S-1222	---	---	-----	3.2
14.	One	Ea	8 Inch IPS, Gasket, Flex Type, 150 LB, Steel	---	---	9Z5330013387863	3.2
15.	4	Ea	4 Inch IPS, Valve, Gate, 150 LB, Navy, Steel, MIL-V-18110, Class 150, Comp D	---	---	-----	3.2
16.	One	Ea	4 Inch IPS, Fuel Oil Trnasfer Manifold, V-5403, 4 Valve Manifold	---	2.e	-----	3.2
17.	One	Kt	Epoxy, Primer Coating, F-150, MIL-P-24441, Green, 10 Gallons Total	---	---	9Q8010004376757	3.2
18.	One	Kt	Epoxy Kit, White, 10 Gal--- MIL-P-24441	---	---	9Q8010013023606	3.2
19.	One	Kt	Epoxy Kit, Red, Semi- 1 Gallon	---	---	9Q8010013597236	3.2
20.	4	EA	1/4 Inch IPS, Valve, A105--- MIL-V-24586	---	---	9C4820010853346	3.2